

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/553,430

Source: IFW

Date Processed by STIC: 1/25/07

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 01/25/2007

PATENT APPLICATION: US/10/553,430

TIME: 12:04:03

Input Set : F:\SER-100X-SEQLIST.txt

Output Set: N:\CRF4\01252007\J553430.raw

```

3 <110> APPLICANT: Whitehead Institute for Biomedical Research
4     Hug, Christopher
5     Lodish, Harvey F.
7 <120> TITLE OF INVENTION: USE OF T-CADHERIN AS A TARGET
9 <130> FILE REFERENCE: SER-100X
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/553,430
C--> 12 <141> CURRENT FILING DATE: 2005-10-18
14 <160> NUMBER OF SEQ ID NOS: 18
16 <170> SOFTWARE: PatentIn version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 713
20 <212> TYPE: PRT
21 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: SIGNAL
25 <222> LOCATION: (1)..(22)
26 <223> OTHER INFORMATION:
28 <220> FEATURE:
29 <221> NAME/KEY: LIPID
30 <222> LOCATION: (693)..(693)
31 <223> OTHER INFORMATION: GPI-ANCHOR
W--> 34 <220>
35 <221> NAME/KEY: PROPEP
36 <222> LOCATION: (23)..(139)
37 <223> OTHER INFORMATION:
39 <220> FEATURE:
40 <221> NAME/KEY: PROPEP
41 <222> LOCATION: (694)..(713)
42 <223> OTHER INFORMATION:
W--> 44 <400> 1
46 Met Gln Pro Arg Thr Pro Leu Val Leu Cys Val Leu Leu Ser Gln Val
47 1          5          10          15
50 Leu Leu Leu Thr Ser Ala Glu Asp Leu Asp Cys Thr Pro Gly Phe Gln
51          20          25          30
54 Gln Lys Val Phe His Ile Asn Gln Pro Ala Glu Phe Ile Glu Asp Gln
55          35          40          45
58 Ser Ile Leu Asn Leu Thr Phe Ser Asp Cys Lys Gly Asn Asp Lys Leu
59          50          55          60
62 Arg Tyr Glu Val Ser Ser Pro Tyr Phe Lys Val Asn Ser Asp Gly Gly
63 65          70          75          80
66 Leu Val Ala Leu Arg Asn Ile Thr Ala Val Gly Lys Thr Leu Phe Val
67          85          90          95
70 His Ala Arg Thr Pro His Ala Glu Asp Met Ala Glu Leu Val Ile Val

```

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Input Set : F:\SER-100X-SEQLIST.txt

Output Set: N:\CRF4\01252007\J553430.raw

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71          100          105          110
74 Gly Gly Lys Asp Ile Gln Gly Ser Leu Gln Asp Ile Phe Lys Phe Ala
75          115          120          125
78 Arg Thr Ser Pro Val Pro Arg Gln Lys Arg Ser Ile Val Val Ser Pro
79          130          135          140
82 Ile Leu Ile Pro Glu Asn Gln Arg Gln Pro Phe Pro Arg Asp Val Gly
83 145          150          155          160
86 Lys Val Val Asp Ser Asp Arg Pro Glu Arg Ser Lys Phe Arg Leu Thr
87          165          170          175
90 Gly Lys Gly Val Asp Gln Glu Pro Lys Gly Ile Phe Arg Ile Asn Glu
91          180          185          190
94 Asn Thr Gly Ser Val Ser Val Thr Arg Thr Leu Asp Arg Glu Val Ile
95          195          200          205
98 Ala Val Tyr Gln Leu Phe Val Glu Thr Thr Asp Val Asn Gly Lys Thr
99          210          215          220
102 Leu Glu Gly Pro Val Pro Leu Glu Val Ile Val Ile Asp Gln Asn Asp
103 225          230          235          240
106 Asn Arg Pro Ile Phe Arg Glu Gly Pro Tyr Ile Gly His Val Met Glu
107          245          250          255
110 Gly Ser Pro Thr Gly Thr Thr Val Met Arg Met Thr Ala Phe Asp Ala
111          260          265          270
114 Asp Asp Pro Ala Thr Asp Asn Ala Leu Leu Arg Tyr Asn Ile Arg Gln
115          275          280          285
118 Gln Thr Pro Asp Lys Pro Ser Pro Asn Met Phe Tyr Ile Asp Pro Glu
119          290          295          300
122 Lys Gly Asp Ile Val Thr Val Val Ser Pro Ala Leu Leu Asp Arg Glu
123 305          310          315          320
126 Thr Leu Glu Asn Pro Lys Tyr Glu Leu Ile Ile Glu Ala Gln Asp Met
127          325          330          335
130 Ala Gly Leu Asp Val Gly Leu Thr Gly Thr Ala Thr Ala Thr Ile Met
131          340          345          350
134 Ile Asp Asp Lys Asn Asp His Ser Pro Lys Phe Thr Lys Lys Glu Phe
135          355          360          365
138 Gln Ala Thr Val Glu Glu Gly Ala Val Gly Val Ile Val Asn Leu Thr
139          370          375          380
142 Val Glu Asp Lys Asp Asp Pro Thr Thr Gly Ala Trp Arg Ala Ala Tyr
143 385          390          395          400
146 Thr Ile Ile Asn Gly Asn Pro Gly Gln Ser Phe Glu Ile His Thr Asn
147          405          410          415
150 Pro Gln Thr Asn Glu Gly Met Leu Ser Val Val Lys Pro Leu Asp Tyr
151          420          425          430
154 Glu Ile Ser Ala Phe His Thr Leu Leu Ile Lys Val Glu Asn Glu Asp
155          435          440          445
158 Pro Leu Val Pro Asp Val Ser Tyr Gly Pro Ser Ser Thr Ala Thr Val
159          450          455          460
162 His Ile Thr Val Leu Asp Val Asn Glu Gly Pro Val Phe Tyr Pro Asp
163 465          470          475          480
166 Pro Met Met Val Thr Arg Gln Glu Asp Leu Ser Val Gly Ser Val Leu
167          485          490          495

```

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```

170 Leu Thr Val Asn Ala Thr Asp Pro Asp Ser Leu Gln His Gln Thr Ile
171          500          505          510
174 Arg Tyr Ser Val Tyr Lys Asp Pro Ala Gly Trp Leu Asn Ile Asn Pro
175          515          520          525
178 Ile Asn Gly Thr Val Asp Thr Thr Ala Val Leu Asp Arg Glu Ser Pro
179          530          535          540
182 Phe Val Asp Asn Ser Val Tyr Thr Ala Leu Phe Leu Ala Ile Asp Ser
183 545          550          555          560
186 Gly Asn Pro Pro Ala Thr Gly Thr Gly Thr Leu Leu Ile Thr Leu Glu
187          565          570          575
190 Asp Val Asn Asp Asn Ala Pro Phe Ile Tyr Pro Thr Val Ala Glu Val
191          580          585          590
194 Cys Asp Asp Ala Lys Asn Leu Ser Val Val Ile Leu Gly Ala Ser Asp
195          595          600          605
198 Lys Asp Leu His Pro Asn Thr Asp Pro Phe Lys Phe Glu Ile His Lys
199          610          615          620
202 Gln Ala Val Pro Asp Lys Val Trp Lys Ile Ser Lys Ile Asn Asn Thr
203 625          630          635          640
206 His Ala Leu Val Ser Leu Leu Gln Asn Leu Asn Lys Ala Asn Tyr Asn
207          645          650          655
210 Leu Pro Ile Met Val Thr Asp Ser Gly Lys Pro Pro Met Thr Asn Ile
211          660          665          670
214 Thr Asp Leu Arg Val Gln Val Cys Ser Cys Arg Asn Ser Lys Val Asp
215          675          680          685
218 Cys Asn Ala Ala Gly Ala Leu Arg Phe Ser Leu Pro Ser Val Leu Leu
219          690          695          700
222 Leu Ser Leu Phe Ser Leu Ala Cys Leu
223 705          710

```

226 &lt;210&gt; SEQ ID NO: 2

227 &lt;211&gt; LENGTH: 244

228 &lt;212&gt; TYPE: PRT

229 &lt;213&gt; ORGANISM: Homo sapiens

231 &lt;220&gt; FEATURE:

232 &lt;221&gt; NAME/KEY: SIGNAL

233 &lt;222&gt; LOCATION: (1)..(14)

234 &lt;223&gt; OTHER INFORMATION:

236 &lt;220&gt; FEATURE:

237 &lt;221&gt; NAME/KEY: DOMAIN

238 &lt;222&gt; LOCATION: (42)..(107)

239 &lt;223&gt; OTHER INFORMATION: Collagen-like domain

W--&gt; 242 &lt;220&gt;

243 &lt;221&gt; NAME/KEY: DOMAIN

244 &lt;222&gt; LOCATION: (108)..(244)

245 &lt;223&gt; OTHER INFORMATION: Clq domain

248 &lt;400&gt; SEQUENCE: 2

250 Met Leu Leu Leu Gly Ala Val Leu Leu Leu Leu Ala Leu Pro Gly His

251 1 5 10 15

254 Asp Gln Glu Thr Thr Thr Gln Gly Pro Gly Val Leu Leu Pro Leu Pro

255 20 25 30

## RAW SEQUENCE LISTING

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TIME: 12:04:03

Input Set : F:\SER-100X-SEQLIST.txt

Output Set: N:\CRF4\01252007\J553430.raw

```

258 Lys Gly Ala Cys Thr Gly Trp Met Ala Gly Ile Pro Gly His Pro Gly
259      35                      40                      45
262 His Asn Gly Ala Pro Gly Arg Asp Gly Arg Asp Gly Thr Pro Gly Glu
263      50                      55                      60
266 Lys Gly Glu Lys Gly Asp Pro Gly Leu Ile Gly Pro Lys Gly Asp Ile
267 65                      70                      75                      80
270 Gly Glu Thr Gly Val Pro Gly Ala Glu Gly Pro Arg Gly Phe Pro Gly
271      85                      90                      95
274 Ile Gln Gly Arg Lys Gly Glu Pro Gly Glu Gly Ala Tyr Val Tyr Arg
275      100                     105                     110
278 Ser Ala Phe Ser Val Gly Leu Glu Thr Tyr Val Thr Ile Pro Asn Met
279      115                     120                     125
282 Pro Ile Arg Phe Thr Lys Ile Phe Tyr Asn Gln Gln Asn His Tyr Asp
283      130                     135                     140
286 Gly Ser Thr Gly Lys Phe His Cys Asn Ile Pro Gly Leu Tyr Tyr Phe
287 145                     150                     155                     160
290 Ala Tyr His Ile Thr Val Tyr Met Lys Asp Val Lys Val Ser Leu Phe
291      165                     170                     175
294 Lys Lys Asp Lys Ala Met Leu Phe Thr Tyr Asp Gln Tyr Gln Glu Asn
295      180                     185                     190
298 Asn Val Asp Gln Ala Ser Gly Ser Val Leu Leu His Leu Glu Val Gly
299      195                     200                     205
302 Asp Gln Val Trp Leu Gln Val Tyr Gly Glu Gly Glu Arg Asn Gly Leu
303      210                     215                     220
306 Tyr Ala Asp Asn Asp Asn Asp Ser Thr Phe Thr Gly Phe Leu Leu Tyr
307 225                     230                     235                     240
310 His Asp Thr Asn

```

314 &lt;210&gt; SEQ ID NO: 3

315 &lt;211&gt; LENGTH: 247

316 &lt;212&gt; TYPE: PRT

317 &lt;213&gt; ORGANISM: Mus musculus

319 &lt;220&gt; FEATURE:

320 &lt;221&gt; NAME/KEY: SIGNAL

321 &lt;222&gt; LOCATION: (1)..(17)

322 &lt;223&gt; OTHER INFORMATION:

324 &lt;220&gt; FEATURE:

325 &lt;221&gt; NAME/KEY: DOMAIN

326 &lt;222&gt; LOCATION: (45)..(110)

327 &lt;223&gt; OTHER INFORMATION: Collagen-like domain

W--&gt; 330 &lt;220&gt;

331 &lt;221&gt; NAME/KEY: DOMAIN

332 &lt;222&gt; LOCATION: (111)..(247)

333 &lt;223&gt; OTHER INFORMATION: Clq domain

336 &lt;400&gt; SEQUENCE: 3

338 Met Leu Leu Leu Gln Ala Leu Leu Phe Leu Leu Ile Leu Pro Ser His

339 1 5 10 15

342 Ala Glu Asp Asp Val Thr Thr Thr Glu Glu Leu Ala Pro Ala Leu Val

343 20 25 30

346 Pro Pro Pro Lys Gly Thr Cys Ala Gly Trp Met Ala Gly Ile Pro Gly

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DATE: 01/25/2007

TIME: 12:04:03

Input Set : F:\SER-100X-SEQLIST.txt

Output Set: N:\CRF4\01252007\J553430.raw

```

347          35          40          45
350 His Pro Gly His Asn Gly Thr Pro Gly Arg Asp Gly Arg Asp Gly Thr
351          50          55          60
354 Pro Gly Glu Lys Gly Glu Lys Gly Asp Ala Gly Leu Leu Gly Pro Lys
355 65          70          75          80
358 Gly Glu Thr Gly Asp Val Gly Met Thr Gly Ala Glu Gly Pro Arg Gly
359          85          90          95
362 Phe Pro Gly Thr Pro Gly Arg Lys Gly Glu Pro Gly Glu Ala Ala Tyr
363          100         105         110
366 Met Tyr Arg Ser Ala Phe Ser Val Gly Leu Glu Thr Arg Val Thr Val
367          115         120         125
370 Pro Asn Val Pro Ile Arg Phe Thr Lys Ile Phe Tyr Asn Gln Gln Asn
371          130         135         140
374 His Tyr Asp Gly Ser Thr Gly Lys Phe Tyr Cys Asn Ile Pro Gly Leu
375 145         150         155         160
378 Tyr Tyr Phe Ser Tyr His Ile Thr Val Tyr Met Lys Asp Val Lys Val
379          165         170         175
382 Ser Leu Phe Lys Lys Asp Lys Ala Val Leu Phe Thr Tyr Asp Gln Tyr
383          180         185         190
386 Gln Glu Lys Asn Val Asp Gln Ala Ser Gly Ser Val Leu Leu His Leu
387          195         200         205
390 Glu Val Gly Asp Gln Val Trp Leu Gln Val Tyr Gly Asp Gly Asp His
391          210         215         220
394 Asn Gly Leu Tyr Ala Asp Asn Val Asn Asp Ser Thr Phe Thr Gly Phe
395 225         230         235         240
398 Leu Leu Tyr His Asp Thr Asn
399          245

```

402 &lt;210&gt; SEQ ID NO: 4

403 &lt;211&gt; LENGTH: 714

404 &lt;212&gt; TYPE: PRT

405 &lt;213&gt; ORGANISM: Mus musculus

407 &lt;220&gt; FEATURE:

408 &lt;221&gt; NAME/KEY: SIGNAL

409 &lt;222&gt; LOCATION: (1)..(22)

410 &lt;223&gt; OTHER INFORMATION:

412 &lt;220&gt; FEATURE:

413 &lt;221&gt; NAME/KEY: LIPID

414 &lt;222&gt; LOCATION: (693)..(693)

415 &lt;223&gt; OTHER INFORMATION: GPI-ANCHOR

W--&gt; 418 &lt;220&gt;

419 &lt;221&gt; NAME/KEY: PROPEP

420 &lt;222&gt; LOCATION: (23)..(139)

421 &lt;223&gt; OTHER INFORMATION:

423 &lt;220&gt; FEATURE:

424 &lt;221&gt; NAME/KEY: PROPEP

425 &lt;222&gt; LOCATION: (694)..(714)

426 &lt;223&gt; OTHER INFORMATION:

W--&gt; 428 &lt;400&gt; 4

430 Met Gln Pro Arg Thr Pro Leu Thr Leu Cys Val Leu Leu Ser Gln Val

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/553,430

DATE: 01/25/2007  
TIME: 12:04:04

Input Set : F:\SER-100X-SEQLIST.txt  
Output Set: N:\CRF4\01252007\J553430.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12,13,14,15,16,17,18

## VERIFICATION SUMMARY

DATE: 01/25/2007

PATENT APPLICATION: US/10/553,430

TIME: 12:04:04

Input Set : F:\SER-100X-SEQLIST.txt

Output Set: N:\CRF4\01252007\J553430.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:34 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:26  
L:44 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:37  
L:44 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:42  
L:242 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:234  
L:330 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:322  
L:418 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:410  
L:428 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:421  
L:428 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:426